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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,224	11/08/2001	Frank Kopf	1813	5567

7590 01/19/2005  
Striker Striker & Stenby  
103 East Neck Road  
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EXAMINER

MACARTHUR, VICTOR L

ART UNIT PAPER NUMBER

3679

DATE MAILED: 01/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/009,224

Applicant(s)

KOPF, FRANK

Examiner

Victor MacArthur

Art Unit

3679

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 02 November 2004.  
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 13, 14, 16, 17 and 19-27 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 13, 14, 16, 17 and 19-27 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Application Reassigned to New Examiner***

This application has been reassigned to examiner Victor MacArthur whose contact information is listed in the conclusion section below.

### ***Claim Objections***

Claims 16, 17, 19 and 20 are objected to because of the following informalities:

- The phrase “collarlike” (line2 of claim 16) should be replaced with --collar-shaped-- to improve claim clarity. Claim 17 and 20 are similarly objected to.
- The phrase “platelike” (line2 of claim 19) should be replaced with --plate-shaped-- to improve claim clarity. Claim 20 is similarly objected to.
- The phrase “the collarlike widening” (line 3 of claim 20) lacks proper antecedent basis since claim 20 does not depend from claim 16 or 17. The word “the” should be replaced with “a” or the claim dependency amended.

Appropriate correction is required. For purposes of examining the instant invention, the examiner has assumed these corrections have been made.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 3679

Claims 13, 14, 16, 17 and 19-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Savage (U.S. Patent 4,245,957).

Claim 13. Savage discloses (figs. 1 and 2) a device for securing an add-on part (10) to a substantially smooth drive shaft (34), having a slaving element (42, 26, 28, 30), which is seated in a manner fixed against relative rotation on the drive shaft and transmits a rotary motion from the drive shaft to the add-on part, and having only one spring element (46), which axially secures the add-on part on the drive shaft, characterized in that the slaving element penetrates (through the center of the add-on part) the add-on part, and the spring element is braced directly on the slaving element and on the add-on part and thus axially fixes the add-on part on the drive shaft.

Claim 14. Savage discloses that the add-on part is clamped between the spring element and a portion (right portion of the slaving element) of the slaving element.

Claim 16. Savage discloses that the slaving element has a collar-shaped widening (50) on which the spring element is braced.

Claim 17. Savage discloses that the add-on part has recesses (recess in 10 receiving 50 and 30), through which the slaving element can be passed (in as much as the applicant's invention can) with its collar-shaped widening.

Claim 19. Savage discloses that the slaving element has a plate-shaped widening (26) of its diameter, at which the add-on part is braced.

Claim 20. Savage discloses that the slaving element has recesses (recesses on either side of 50) corresponding to the location of a collar-shaped widening (50).

Claim 21. Savage discloses that the spring element is a circular cup spring that is open on one side (in as much as the applicant's invention is).

Art Unit: 3679

Claim 22. Savage discloses that the spring element is secured on the add-on part against later twisting by means of a positioning pin (22). Note that pin 22 contributes to the securement of spring (46) even though it does not directly contact spring (46).

Claim 23. Savage discloses that the add-on part to be secured is a vane wheel of a fan (col.2, ll.15-20).

Claim 24. Savage discloses that the slaving element is press-fitted onto the drive shaft (col.2, ll.55-60).

Claim 25. Savage discloses (figs.1 and 2) a device for securing an add-on part (10) to a substantially smooth drive shaft (34), having a slaving element (42, 26, 28, 30), which is seated in a manner fixed against relative rotation on the drive shaft and transmits a rotary motion from the drive shaft to the add-on part, and having a spring element (46), which axially secures the add-on part on the drive shaft, characterized in that the slaving element penetrates the add-on part, and the spring element is braced on the slaving element and on the add-on part and thus axially fixes the add-on part on the drive shaft, and also directly abuts against the slaving element and against the add-on part.

Claim 26. Savage discloses (figs.1 and 2) a device for securing an add-on part (10) to a substantially smooth drive shaft (34), having a slaving element (42, 26, 28, 30) which is seated in a manner fixed against relative rotation on the drive shaft and transmits a rotary motion from the drive shaft to the add-on part, and having only one spring element (46), which axially secures the add-on part on the drive shaft, characterized in that the slaving element penetrates the add-on part, and the spring element is braced directly on the slaving element and on the add-on part and

Art Unit: 3679

thus axially fixes the add-on part on the drive shaft, and that the spring element is embodied in one piece.

Claim 27. Savage discloses (figs. 1 and 2) a device for securing an add-on part (10) to a substantially smooth drive shaft (34), having a slaving element (42, 26, 28, 30), which is seated in a manner fixed against relative rotation on the drive shaft and transmits a rotary motion from the drive shaft to the add-on part, and having a spring element (34), which axially secures the add-on part on the drive shaft, characterized in that the slaving element penetrates the add-on part, and the spring element is braced directly on the slaving element and on the add-on part and thus axially fixes the add-on part on the drive shaft, and in that the add-on part has positive form-locking engagement with the slaving element (in as much as the applicant's invention does) such that the add-on part positively interlocks (via 22, 24) with the slaving element in direct contact with the slaving element and embraces it.

### ***Response to Arguments***

Applicant's arguments with respect to the claims have been considered but are moot in view of the new grounds of rejection.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Referring to springs fixed by a pin:

Cummins U.S. Patent 4,189,284

Art Unit: 3679

Applicant's amendment (e.g. the newly added limitation "only one" in line 5 of claim 13) necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor MacArthur whose telephone number is (703) 305-5701. The examiner can normally be reached on 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (703) 308-2686. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Art Unit: 3679

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

*VLM*

VLM

January 12, 2005

*Daniel P Stodola*

**DANIEL P. STODOLA**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 3600**